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EECS 338

22 November 2016

**Final Project Proposal**

I will be working alone on a process scheduler, based on operating systems assignments from Georgia Tech [1] and University of Washington [2]. Schedulers control which processes are run at any particular time to maximize efficiency. For instance, a queued process will be given CPU time while another is waiting for IO input. This project falls under the category of process management, as the application will manage when processes run and use resources. I plan to implement multiple scheduling algorithms—first-come, first served; round robin; and fair share—and look at the performance of each. The code will not have direct output, but I can look at CPU usage, etc. and computation time to gauge the effectiveness of different approaches. I may use helper code from UW to spawn processes for testing purposes. I do not expect to need the Case HPCC.

[1] <http://www.cc.gatech.edu/~rama/CS2200-External/projects/p4/prj4.html>

[2] <https://homes.cs.washington.edu/~zahorjan/homepage/Tools/LinuxProjects/>